

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1311076

Luminaire Tested: P3SQAS05R609050DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R609050DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

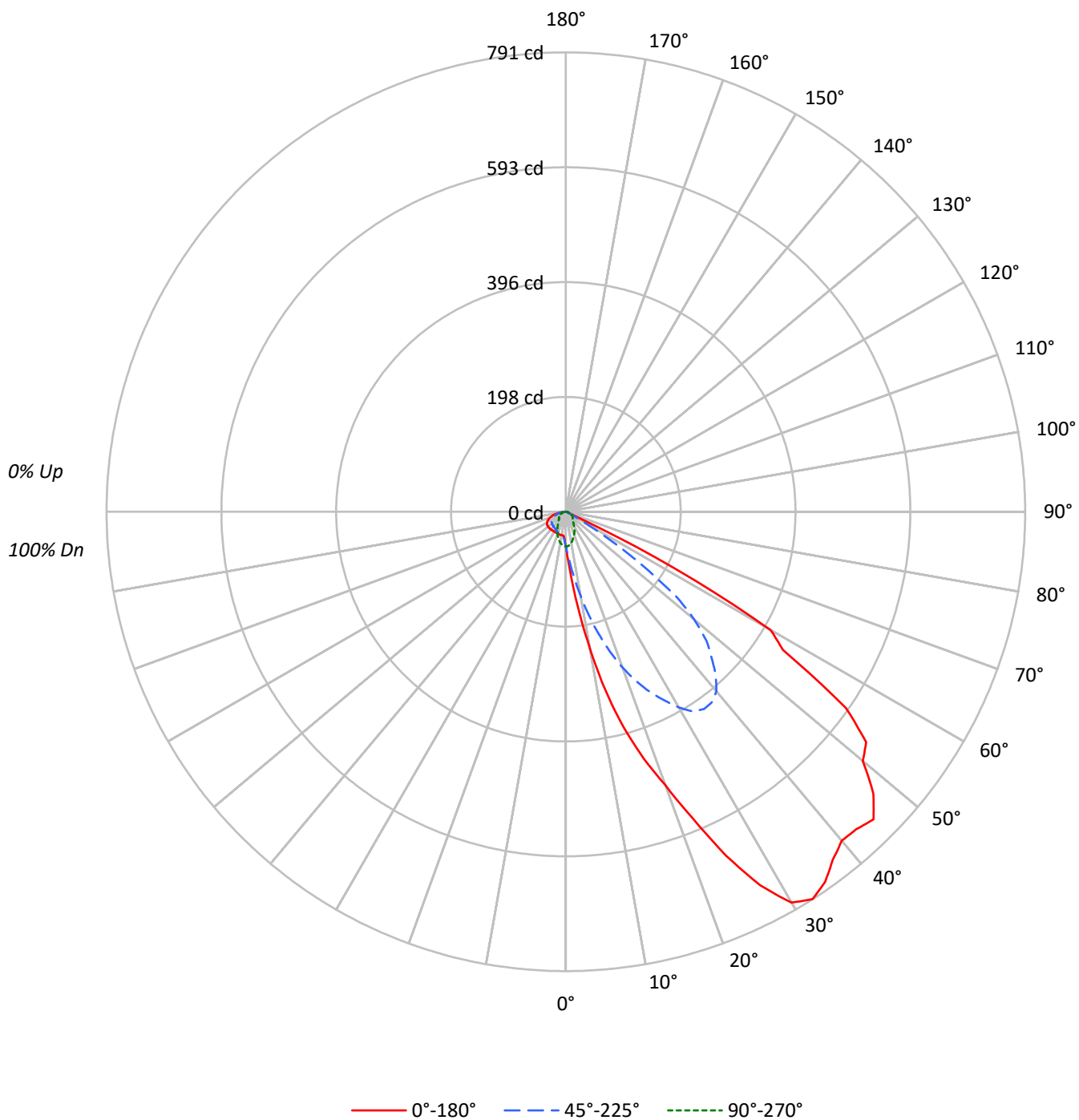
Lumens per Lamp: N/A  
Luminaire Lumens: 602.0 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 22  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 10264  | 10264 | 10264 | 10264 | 10264 |
| 5°  | 20244  | 15801 | 10131 | 7659  | 7278  |
| 10° | 41814  | 25742 | 9478  | 6978  | 7083  |
| 15° | 68395  | 38637 | 8487  | 7025  | 7221  |
| 20° | 91766  | 52362 | 7624  | 7019  | 7313  |
| 25° | 124163 | 64989 | 6651  | 6974  | 7582  |
| 30° | 154538 | 77379 | 5548  | 6960  | 7935  |
| 35° | 163613 | 87210 | 4709  | 7127  | 8284  |
| 40° | 166210 | 90670 | 4317  | 7374  | 8970  |
| 45° | 182475 | 86366 | 4141  | 7867  | 9718  |
| 50° | 178871 | 77405 | 4099  | 8359  | 10690 |
| 55° | 176794 | 47471 | 4114  | 9038  | 11830 |
| 60° | 140224 | 11298 | 4340  | 9610  | 12813 |
| 65° | 8925   | 1997  | 4238  | 9821  | 13815 |
| 70° | 1913   | 2216  | 4129  | 10172 | 14603 |
| 75° | 1797   | 2196  | 3660  | 9848  | 14905 |
| 80° | 1587   | 2182  | 3769  | 9819  | 14083 |
| 85° | 988    | 2174  | 4347  | 8695  | 14030 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 192575 cd/sqm

TEST NUMBER: P1311076

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 7.4    | 1.2       |
| 10°-20°   | 37.5   | 6.2       |
| 20°-30°   | 87.1   | 14.5      |
| 30°-40°   | 135.3  | 22.5      |
| 40°-50°   | 154.2  | 25.6      |
| 50°-60°   | 129.9  | 21.6      |
| 60°-70°   | 37.7   | 6.3       |
| 70°-80°   | 9.6    | 1.6       |
| 80°-90°   | 3.3    | 0.5       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 132.0  | 21.9      |
| 0°-40°    | 267.3  | 44.4      |
| 0°-60°    | 551.4  | 91.6      |
| 0°-90°    | 602.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 602.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 60  | 60  | 60  | 60   | 60   |      |
| 5°  | 117 | 91  | 59  | 44   | 42   | 15   |
| 15° | 384 | 217 | 48  | 39   | 40   | 111  |
| 25° | 653 | 342 | 35  | 37   | 40   | 303  |
| 35° | 778 | 415 | 22  | 34   | 39   | 483  |
| 45° | 749 | 355 | 17  | 32   | 40   | 563  |
| 55° | 589 | 158 | 14  | 30   | 39   | 495  |
| 65° | 22  | 5   | 10  | 24   | 34   | 108  |
| 75° | 3   | 3   | 6   | 15   | 22   | 3    |
| 85° | 0   | 1   | 2   | 4    | 7    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 45°   | 67.5° | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 59.6  | 59.6  | 59.6  | 59.6  | 59.6  | 59.6  | 59.6  | 59.6  | 59.6  | 59.6  | 59.6 |
| 2.5°  | 80.4  | 79.9  | 79.9  | 79.3  | 78.8  | 78.3  | 76.6  | 76.1  | 72.8  | 66.2  | 59.6 |
| 5°    | 117.1 | 116.6 | 114.9 | 114.4 | 111.6 | 107.8 | 104.0 | 100.1 | 91.4  | 72.8  | 58.6 |
| 7.5°  | 169.6 | 170.7 | 169.6 | 163.6 | 159.8 | 153.8 | 142.3 | 134.1 | 116.6 | 79.3  | 56.4 |
| 10°   | 239.1 | 239.1 | 237.5 | 228.2 | 220.0 | 208.5 | 193.7 | 179.5 | 147.2 | 85.4  | 54.2 |
| 12.5° | 314.7 | 316.3 | 308.1 | 300.4 | 285.7 | 271.4 | 251.2 | 229.8 | 182.2 | 90.3  | 51.4 |
| 15°   | 383.6 | 382.5 | 374.3 | 364.5 | 349.1 | 329.4 | 308.1 | 280.7 | 216.7 | 93.6  | 47.6 |
| 17.5° | 444.9 | 442.7 | 435.6 | 424.6 | 406.0 | 384.2 | 356.8 | 327.2 | 252.3 | 96.3  | 44.9 |
| 20°   | 500.7 | 493.1 | 484.8 | 473.4 | 455.3 | 432.3 | 403.9 | 370.5 | 285.7 | 96.3  | 41.6 |
| 22.5° | 571.3 | 563.6 | 552.2 | 534.6 | 510.6 | 482.1 | 448.7 | 411.0 | 315.2 | 94.1  | 38.3 |
| 25°   | 653.4 | 647.4 | 627.7 | 605.2 | 574.0 | 540.1 | 501.3 | 450.4 | 342.0 | 90.8  | 35.0 |
| 27.5° | 725.1 | 718.5 | 698.8 | 666.0 | 628.2 | 587.7 | 546.7 | 494.7 | 365.5 | 84.8  | 31.2 |
| 30°   | 777.1 | 768.9 | 753.5 | 722.3 | 676.4 | 627.1 | 578.4 | 528.6 | 389.1 | 77.7  | 27.9 |
| 32.5° | 790.7 | 789.6 | 778.2 | 755.2 | 714.1 | 660.0 | 601.9 | 547.8 | 407.7 | 68.4  | 25.2 |
| 35°   | 778.2 | 779.8 | 777.6 | 766.1 | 736.0 | 682.9 | 617.3 | 558.2 | 414.8 | 59.1  | 22.4 |
| 37.5° | 755.2 | 757.4 | 761.2 | 762.8 | 743.7 | 696.6 | 626.0 | 562.5 | 413.2 | 49.8  | 20.8 |
| 40°   | 739.3 | 738.2 | 738.2 | 749.2 | 745.3 | 702.6 | 627.1 | 559.3 | 403.3 | 39.9  | 19.2 |
| 42.5° | 740.9 | 728.9 | 720.7 | 738.2 | 743.7 | 699.9 | 620.0 | 550.5 | 382.0 | 30.6  | 17.5 |
| 45°   | 749.2 | 723.4 | 709.2 | 731.6 | 740.4 | 690.6 | 606.9 | 537.4 | 354.6 | 21.3  | 17.0 |
| 47.5° | 718.5 | 701.5 | 699.4 | 731.1 | 734.4 | 674.7 | 586.6 | 516.6 | 328.3 | 14.8  | 15.9 |
| 50°   | 667.6 | 664.9 | 676.4 | 709.2 | 709.8 | 648.5 | 563.6 | 478.8 | 288.9 | 10.4  | 15.3 |
| 52.5° | 651.7 | 653.4 | 663.8 | 680.7 | 664.9 | 604.1 | 522.1 | 447.1 | 239.1 | 8.2   | 14.8 |
| 55°   | 588.8 | 591.6 | 601.4 | 611.8 | 600.3 | 550.0 | 471.7 | 408.8 | 158.1 | 7.7   | 13.7 |
| 57.5° | 443.3 | 450.4 | 468.4 | 477.7 | 478.8 | 448.2 | 427.4 | 352.4 | 89.2  | 7.7   | 13.1 |
| 60°   | 407.1 | 397.8 | 389.6 | 370.5 | 353.0 | 349.1 | 351.3 | 264.3 | 32.8  | 7.1   | 12.6 |
| 62.5° | 212.9 | 208.5 | 221.1 | 229.3 | 231.5 | 243.5 | 227.6 | 139.5 | 7.1   | 7.1   | 11.5 |
| 65°   | 21.9  | 21.9  | 26.8  | 35.6  | 59.1  | 78.8  | 75.0  | 40.5  | 4.9   | 6.6   | 10.4 |
| 67.5° | 6.6   | 6.6   | 6.6   | 7.7   | 9.9   | 9.9   | 8.2   | 6.0   | 4.9   | 6.0   | 9.3  |
| 70°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 4.4   | 3.8   | 4.4   | 5.5   | 8.2  |
| 72.5° | 3.3   | 3.3   | 3.3   | 3.3   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 4.9   | 7.1  |
| 75°   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.3   | 3.3   | 3.8   | 5.5  |
| 77.5° | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.7   | 2.7   | 2.7   | 3.3   | 4.4  |
| 80°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.2   | 2.2   | 2.2   | 2.2   | 2.7   | 3.8  |
| 82.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.2   | 2.7  |
| 85°   | 0.5   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.6   | 2.2  |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.1   | 1.1   | 1.6  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 59.6   | 59.6 | 59.6   | 59.6 |
| 2.5°  | 54.2   | 50.3 | 48.2   | 47.1 |
| 5°    | 49.3   | 44.3 | 42.7   | 42.1 |
| 7.5°  | 44.9   | 41.6 | 41.0   | 41.0 |
| 10°   | 42.1   | 39.9 | 40.5   | 40.5 |
| 12.5° | 40.5   | 39.9 | 40.5   | 41.0 |
| 15°   | 38.9   | 39.4 | 40.5   | 40.5 |
| 17.5° | 37.8   | 38.9 | 39.9   | 40.5 |
| 20°   | 36.1   | 38.3 | 39.9   | 39.9 |
| 22.5° | 35.0   | 37.8 | 39.4   | 39.9 |
| 25°   | 33.9   | 36.7 | 38.9   | 39.9 |
| 27.5° | 32.3   | 36.1 | 38.9   | 39.4 |
| 30°   | 30.6   | 35.0 | 38.3   | 39.9 |
| 32.5° | 29.0   | 34.5 | 38.3   | 39.4 |
| 35°   | 27.9   | 33.9 | 38.3   | 39.4 |
| 37.5° | 26.8   | 33.4 | 38.3   | 39.9 |
| 40°   | 26.3   | 32.8 | 37.8   | 39.9 |
| 42.5° | 25.2   | 32.8 | 37.8   | 39.9 |
| 45°   | 24.6   | 32.3 | 37.8   | 39.9 |
| 47.5° | 24.1   | 31.7 | 37.8   | 39.9 |
| 50°   | 23.0   | 31.2 | 37.2   | 39.9 |
| 52.5° | 22.4   | 30.6 | 37.2   | 39.9 |
| 55°   | 21.3   | 30.1 | 36.7   | 39.4 |
| 57.5° | 20.8   | 29.0 | 36.1   | 38.3 |
| 60°   | 19.7   | 27.9 | 35.0   | 37.2 |
| 62.5° | 18.1   | 26.3 | 33.4   | 36.1 |
| 65°   | 16.4   | 24.1 | 31.7   | 33.9 |
| 67.5° | 14.8   | 22.4 | 29.6   | 31.7 |
| 70°   | 13.1   | 20.2 | 26.8   | 29.0 |
| 72.5° | 11.5   | 17.5 | 24.1   | 25.7 |
| 75°   | 9.9    | 14.8 | 20.2   | 22.4 |
| 77.5° | 7.7    | 12.0 | 17.0   | 18.6 |
| 80°   | 6.0    | 9.9  | 13.1   | 14.2 |
| 82.5° | 4.9    | 7.1  | 9.9    | 10.4 |
| 85°   | 3.3    | 4.4  | 6.0    | 7.1  |
| 87.5° | 1.6    | 2.2  | 2.7    | 3.3  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)